



Klasasamvinna í jarðhita og  
stuðningur sem er í boði

Hjalti Páll Ingólfsson, GEORG



# Hvað er GEORG?

*Rannsóknadrifið alþjóða klasasamstarf*

**Stofnað 2009**

*Styrkt til 7 ára af Vísinda og Tækniráði*



UNIVERSITY OF ICELAND



Nýsköpunarmiðstöð  
Íslands



MarkMar



brgm

HÁSKÓLINN Í REYKJAVÍK  
REYKJAVÍK UNIVERSITY



MANNVIT  
ENGINEERING



UPPSALA  
UNIVERSITET



United Nations University



ORKUSTOFNUN



HS ORKA HF



VERKÍS



VATNASKIL  
CONSULTING ENGINEERS



Orkuvita  
Reykjavíkur



ÍSOR



GNS  
SCIENCE  
TE PU AD



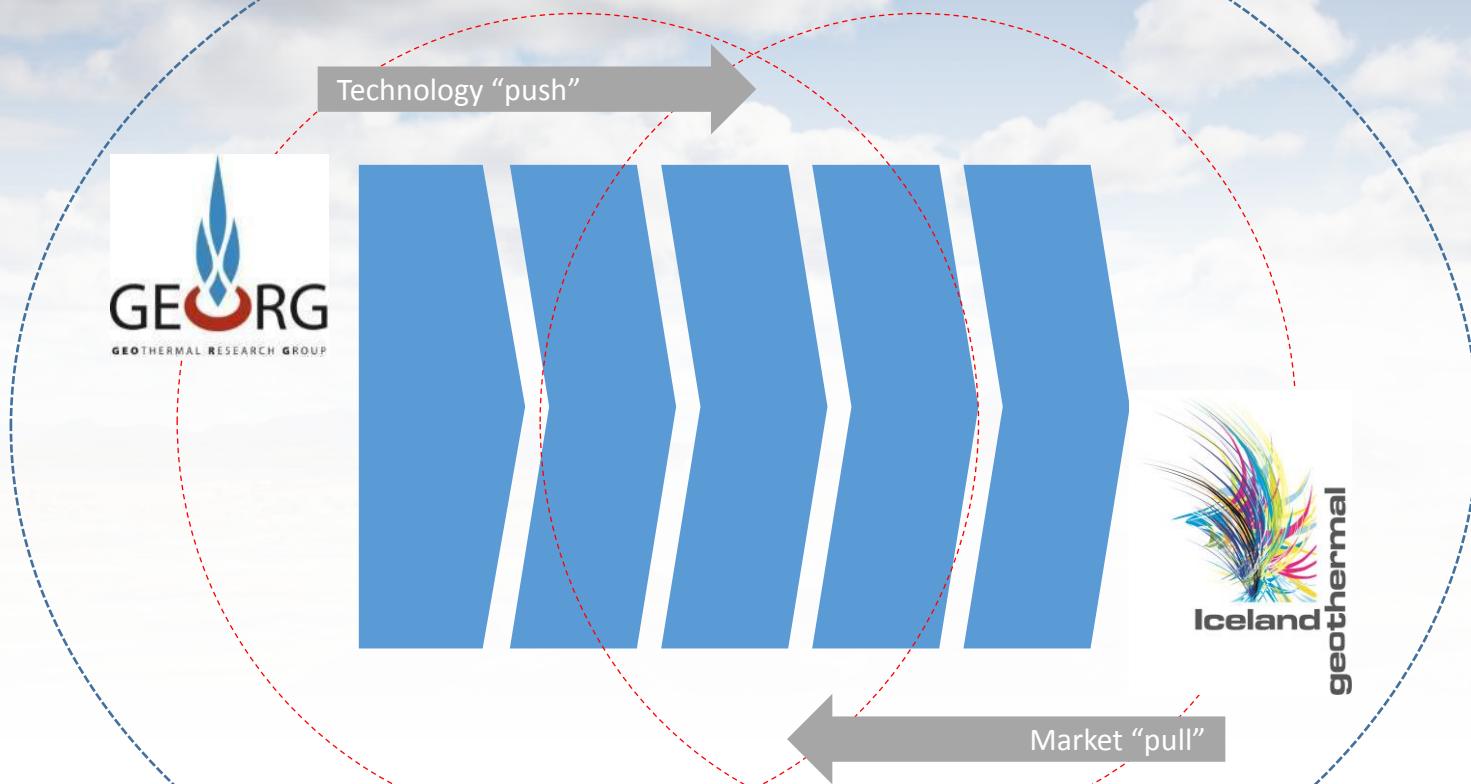
CARBON  
RECYCLING  
INTERNATIONAL



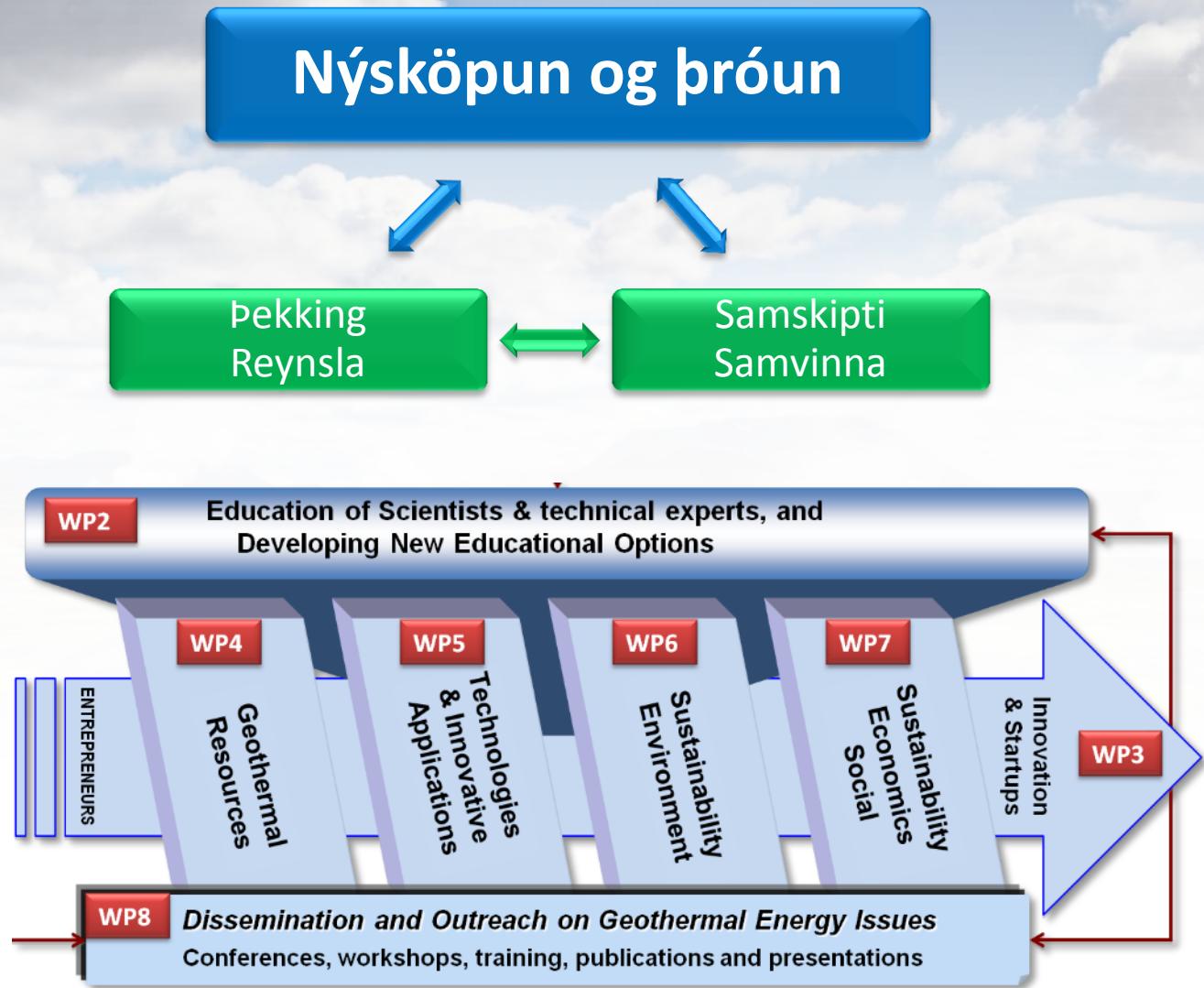
Landsvirkjun

# Íslenski Jarðvarmaklasinn

## Rannsóknadrifinn – Iðnaðardrifinn



# Leiðarljós jarðvarmakaðsans





# European Dimension

- *FP7 Program Committee - Energy*
  - Undirritaður var sérfraðingur í nefndinni fyrir Ísland frá 2009
- *Horizon 2020 Programme Committee - Energy*
  - Undirritaður er stjórnarnefndarfulltrúi fyrir Ísland





GEORG coordinated a proposal submission in the EU call  
“FP7-ERANET-2011-RTD”.



Áhersla lögð á **breiða notkun jarðvarma** allt frá beinni notkun lághita til háhitanothkunar til raforkuframleiðslu

Kostnaðaráætlun: 2,2 milljónir evra (2012-2016)

## Verkefnastjórn í höndum Orkustofnunnar

### Markmið:

- Auka samvinnu Evrópulanda í jarðhitarannsóknum
- Samþætta rannsóknaráætlanir samstarfslandanna
- Móta heildstæða rannsóknaráætlun fyrir jarðhita í Evrópu
- Stuðla að samevrópsku rannsóknar og þróunarverkefnum



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# FP7 Rok

## Project GREEN – Geothermal REsearch; Economic and iNnovative impact

Special focus on the Value-Added chain of three particular fields of the geothermal sector:

### GEOTHERMAL EXPLORATION- AND UTILIZATION EQUIPMENT

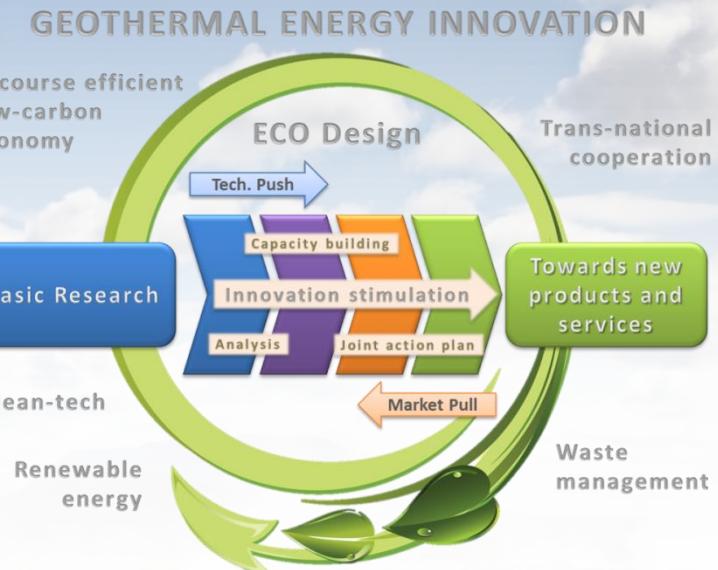
Added value with specialised/tailor made equipment for electricity production etc.

### GEOTHERMAL SPACE HEATING

Waste heat management and reduction of GHG emissions with promotion of geothermal space heating etc.

### GEOTHERMAL DIVERSE USAGES

By-products from geothermal exhaust / emission control, such as from biomedical production, aquaculture, greenhouses etc.



**FP7-REGIONS-2012-2013-1**  
GEORG coordinator > Sigurður Bogason

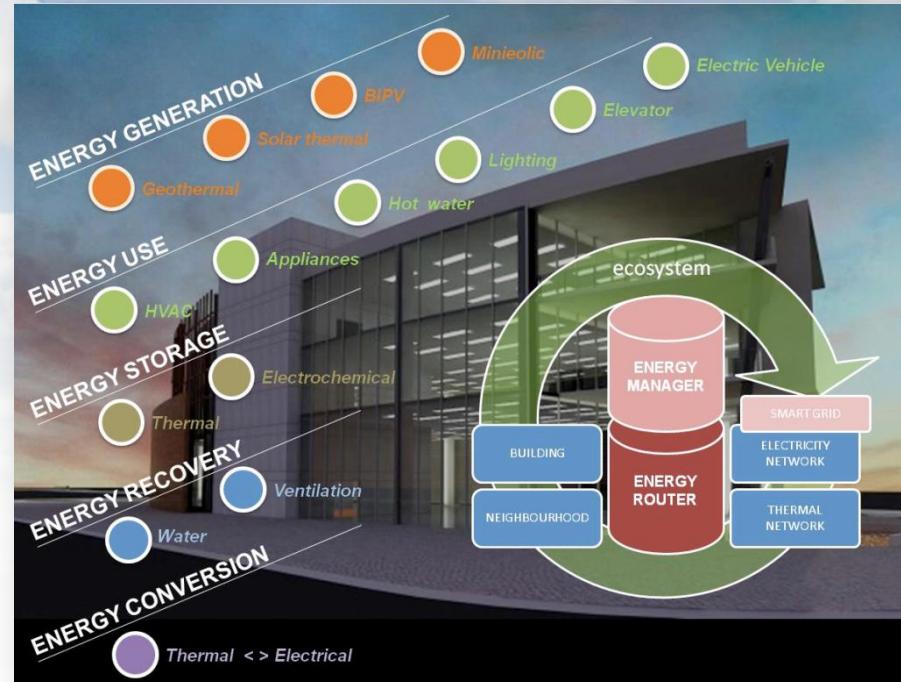
Budget 2,9 M€

### Project partners

GEORG + Gekon, Iceland; Competativeness, Spain; INNOVA + CLUSTHERM, Hungary;  
GtV-BV Geothermie, Germany; SGNet Switzerland;

# CHORUS PROPOSAL

- GEORG participating
  - WP 5 leader, (RES)
- Three year project
- Project cost: 12,4M€
- Requested: 7,9M€



GEORG proposed a WP leadership on “Energy Layer: Renewable Energy Sources (RES)”  
requesting just over 500.000€ in support from the EU

HASKOLI ISLANDS (University of Iceland)  
 Motorola Solutions Israel Ltd.

Ingeniería y Suministros de Asturias, S.A..  
 Honeywell Prague Laboratory  
 Universidad Carlos III de Madrid  
 Institute of Systems and Robotics  
 Euro-Centrum Ltd

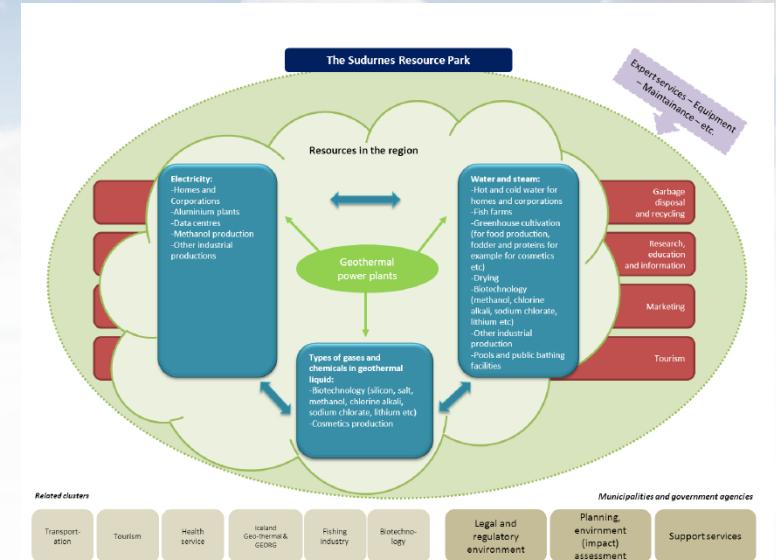
Power Plus Communications  
 Cleancarb s.a.  
 Ramboll Group  
 Israel Electric Corporation  
 Geothermal Research Group  
 DRAGADOS  
 Centro de Estudios de Materiales y control de Obra S.A.



# Geothermal Resource Park

The major outputs of the project are:

- Implementation of a geothermal resource park in Iceland, with a triple helix approach, providing a link between governments, municipalities, research institutes, universities and businesses
- Global geothermal cluster network
- Support to businesses to provide innovative solutions with direct utilization of renewable energy sources, with special focus on environmentally friendly food production in EU, minimizing green house gas emissions and providing a better utilization of resources
- Closed loop water and nutrient cycles – excluding waste, minimizing environmental impact and optimizing energy efficiency
- Implementation of new multidisciplinary innovation and R&D projects cross border
- Contributing with new jobs, increased value creation and strengthening the formation of commercial oriented sustainable food producing SME's
- Exploitation and dissemination of results through conferences, seminars, webs and networking



CIP-EIP-Eco-Innovation-2013  
UNI coordinator > Ragnheiður Þórarinsdóttir

Budget ~1,6 M€

Project partners

HASKOLI ISLANDS, GEORG-Rannsóknarklasi í jarðhita, Iceland Geothermal,  
SVINNA-VERKFRAEDI EHF, Alkemistinn ehf, Orkurannsóknir ehf

# Stuðningur sem GEORG getur veitt



- Beinn og/eða óbeinn fjárhagslegur stuðningur
  - *Getur lagt til hluta mótfamlags þáttakenda*
- Öflugt tengslanet
  - *Innlendir og erlendir aðilar*
  - *Mikið samansafn þekkingar og auðveldar tengingar við fjölda rannsóknaverkefna til að styrkja bakland umsóknar*
- Faglegur stuðningur
  - *Aðstoð við umsóknarskrif (dæmi: Geothermal ERA NET)*
  - *Yfirlestur umsókna*
- Bein þátttaka í verkefnum
  - *GEORG er sjálfstætt félag með PIC - 952875524*
  - *GEORG getur „frontað“ hóp fyrirtækja og losað þau undan „skrifræðinu“*



